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YELENEVSKAYA, N. B.

Mathematical Reviews
Vol. 15 No. 4
Apr. 1954
Astronomy

Elenevskaya, N. B. Expansion of a perturbation function in a Fourier series with respect to the inclination. II. Expansion of a perturbation function in the spatial circular restricted problem of three points in a Fourier series with respect to the inclination. Akad. Nauk SSSR. Byull. Inst. Teoret. Astr. 5, 271–302 (1953). (Russian)

EH

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YELENEVSKAYA, N.B., zaveduyushchiy; DROB', I.M.; CHULIK, I.I.

Observations of minor planets at the L'vov Astronomical Observatory. Astron.tsir. no.133:4 Ja '53. (MLRA 6:6)

1. Otdel nebesnoy mekhaniki L'vovskoy Astronomicheskoy Observatorii. (Planets, Minor)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

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YELENEVSKAYA, N.B.

Development of the perturbative function in Fourier's series relatively to inclination. Part 3. Development of the perturbative function in series according to the rate of eccentricity increase. Biul.Inst.teor.astron. 6 no.7: 434-465 '57. (MIRA 13:3)

(Problem of three bodies)
(Fourier's series)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, N.B.

Development of the perturbative function in Fourier's series relatively to inclination. Part 4. Development of the perturbative function in a spatial limited elliptic problem of three bodies and in an unlimited problem of n bodies. Biul.Inst.teor.astron. 6 no.7:466-486 '57.
(MIRA 13:3)

(Problem of many bodies) (Fourier's series)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, N.B.

Expansion of the perturbation function when eccentricity is near unity. Biul.Inst.teor.astron. 8 no.6:444-456 '62. (MIRA 15:8)

(Perturbation)

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11,1,97
S/033/62/039/005/011/011
E031/E535

3.9300

AUTHOR: Yelenevskaya, N.B.

TITLE: An investigation of the regions of convergence of the expansions in series of the coordinates of undisturbed motion

PERIODICAL: Astronomicheskiy zhurnal, v.39, no.5, 1962, 938-950

TEXT: The author investigated the expansion of functions of the eccentric anomaly, converging not along the whole trajectory, but only for particular values of the mean anomaly. Two types of such expansions are studied: one in powers of (1 - e), where e is the eccentricity, the other in multiples of the eccentric anomaly. The relation between the eccentric anomaly and the eccentricity is given by the equation

$$E = M + e \sin E, \qquad (1)$$

where M is the mean anomaly, from which may be derived the differential equation

$$\frac{dE}{de} = \frac{\sin E}{1 - e \cos E} \qquad (2)$$

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The equations for the curves on which lie the singular points of this equation for both elliptic and hyperbolic motions are obtained. Each curve is the continuation of the other, being a branch of the "particular curve of Keplerian motion", which is the envelope of a one-parameter family of circles whose radii are the radii of convergence of the expansion of the eccentric anomaly for elliptic and hyperbolic motions in powers of $(e - e_0)$; a method of obtaining these radii is described. For values of the eccentricity near to unity the series converge slowly; therefore, the possibility of constructing series in powers of $(1 - e)$ is considered and critical values of the mean anomaly are obtained as a function of e, for which the series converge. In order to study motion within this region of convergence, it is necessary to have Fourier series in the case of elliptic motion and Loran series in the case of hyperbolic motion in the eccentric anomaly. The coordinates of a point moving in a Keplerian orbit can be represented by functions of the form

$$\frac{f(e,E)}{(1 - e \cos E)^{\alpha}} \qquad (27)$$

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An investigation of the regions ... S/033/62/039/005/011/011
E031/E535

Introducing $z = \tan \varphi/2$, where $\varphi = \arcsin e$, the convergence in powers of $(1 - z)$ of Eq.(27) (or, rather, its equivalent after the introduction of z) is studied. The regions of convergence for the expansions in powers of $(1 - e)$ and $(1 - z)$ overlap for all M, except $M = 0$, so by combining the two types of series, motion along the whole trajectory can be studied. There are 9 figures and 6 tables.

SUBMITTED: June 28, 1961

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, N. S.

YELENEVSKAYA, N. S.: "The course of the postoperational period and the regeneration of tissues in fractional pentothal sleep under experimental conditions." Second Moscow State Medical Inst imeni I. V. Stalin. Moscow, 1956. (Dissertations for the Degree of Candidate in Medical Sciences).

SO: Knizhnaya letopis', No. 37, 1956. Moscow.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, V M.

K

V. Phase conversions in the system sodium sulfate-sodium hydroxide. M. I. Ravich and V. M. Elenevskaya. Izvest

Sumitomo Mayerle

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, V M

3

X-ray study of system sodium sulfate-sodium hydroxide. A. N. Khlopova and V. M. Elenevskaya. *Izvest. Sektora Fiz.-Khim. Anal., Inst. Obshchei i Neorg. Khim., Akad. Nauk S.S.R.* 25, 185-7(1954); cf. *ibid.* 24, 280; preceding abstr.—X-ray study confirmed previous conclusions. Na_2SO_4-NaOH mixts. contg. 10% (I), 15.8% (II), 25.0% (III), and 36% (IV) NaOH were prepd. by the method of Ravich, *et al.* I and II were slowly cooled, with stirring, and held several hrs. at 480-90°. III and IV were roasted several hrs. at 318-30°. Samples were tamped into quartz capillaries. In spite of precautions very small amts. of H_2O and CO_2 were absorbed by the samples but the pictures could still be read. Eurilla Mayorga

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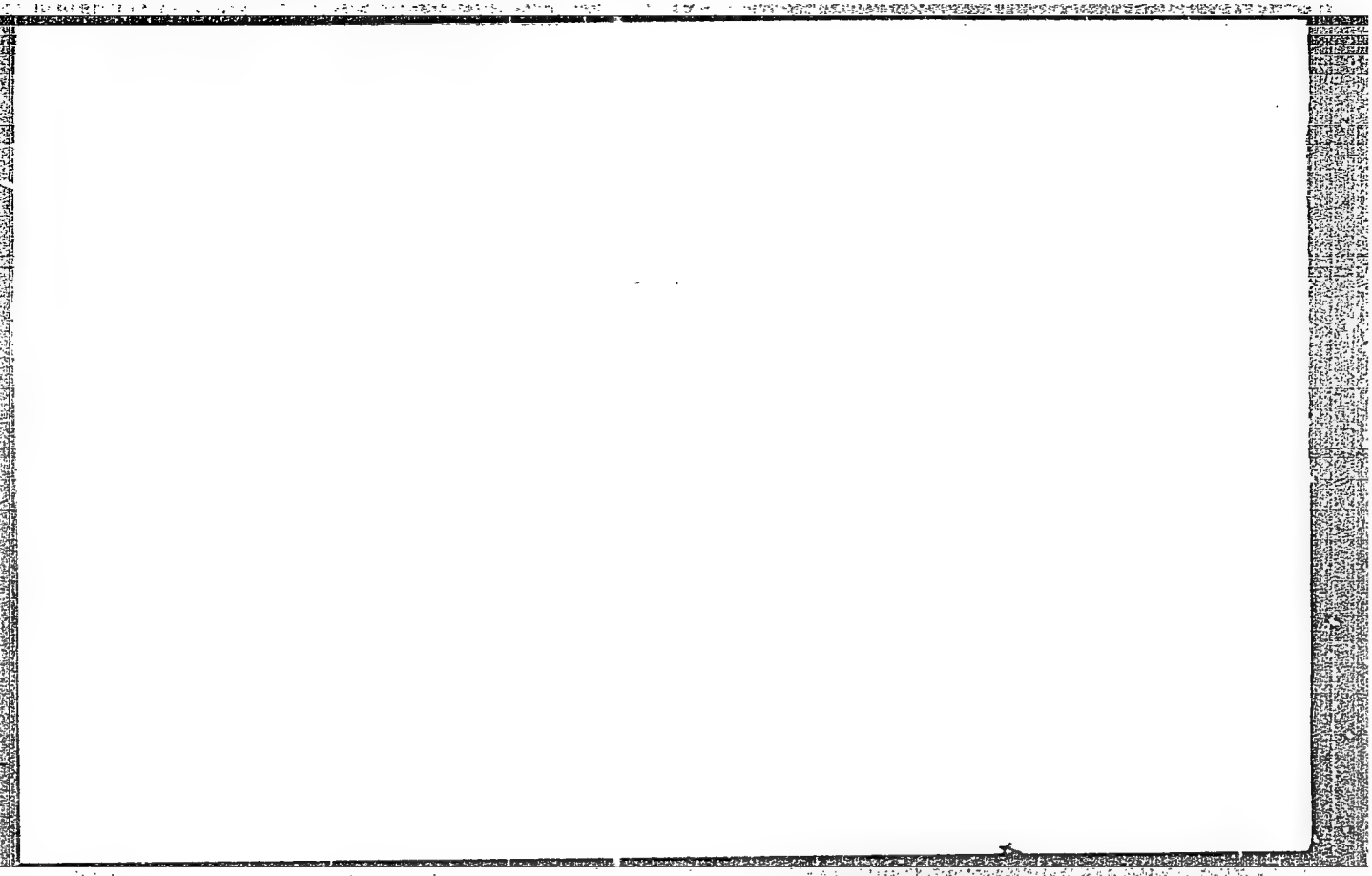

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YELISEYEVSKAYA, V. K.

"Solid Phases Formed During Interactions of Sodium Hydroxide, Sodium Sulfate, and Sodium Chloride." Cand Chem Sci, Inst of General and Inorganic Chemistry, Moscow, 1955. (KL, No 12, Mar 55)

So: Sum, No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

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YELENEVSKAYA, V.M.

Solubility isotherms at 70° and 200° of the system Na_2SO_4-NaOH-H_2O. M. I. Ravich and V. M. Elenevska/a. *Izvest. Sektora Fiz.-Khim. Anal., Inst. Obshchel i Neorg. Khim., Akad. Nauk S.S.S.R.* 26, 200-7(1956).—The limits of crystn. of Na_2SO_4 at 70° and 200° were established for the system. At appreciable concn. of NaOH, complexes of NaOH and Na_2SO_4 are formed. One of these, $3Na_2SO_4$.-$2NaOH$, was confirmed by refraction and photomicrography. Crystn. from aq. solns. confirms transformations found in the anhyd. system Na_2SO_4–NaOH. V. N. Bednarski

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, V.M.

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions. B-8

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 406

Author : M.I. Ravich, V.M. Yelenevskaya.
Inst : -
Title : Phase Transformations in System Sodium Sulfate - Chloride - Hydroxide.

Orig Pub : Zh. neorgan. khimii, 1957, 2, No 5, 1134-1144

Abstract : The phase equilibria in the system Na_2SO_4 (I) - NaCl (II) - NaOH (III) were studied by several methods of the physical-chemical analysis. The existence of an interior crystallization field of the γ-phase with an upper temperature limit of 446 to 448° was established. The final solidification of melts takes place at 285 to 290°. In the γ-phase, the content of I by weight predominates that of II, and the content of III does not exceed 15% by weight. The boundaries of the crystallization fields of

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions. B-8

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 406

I, II, III, the γ-phase, S_1, S_2, β-III and α- solid solutions are shown on the liquidus graph, also the isotherms of solubility and graphs of x-ray photograph computations confirming the existence of the γ-phase are given. A table of thermal effects of the alloys according to heating curves is given.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, V.M.; RAVICH, M.I.

Solubility of lithium sulfate and lithium carbonate in water at high temperatures. Zhur.neorg.khim. 6 no.10:2380-2386 O '61. (MIRA 14:9)

(Lithium sulfate) (Lithium carbonate) (Solubility)

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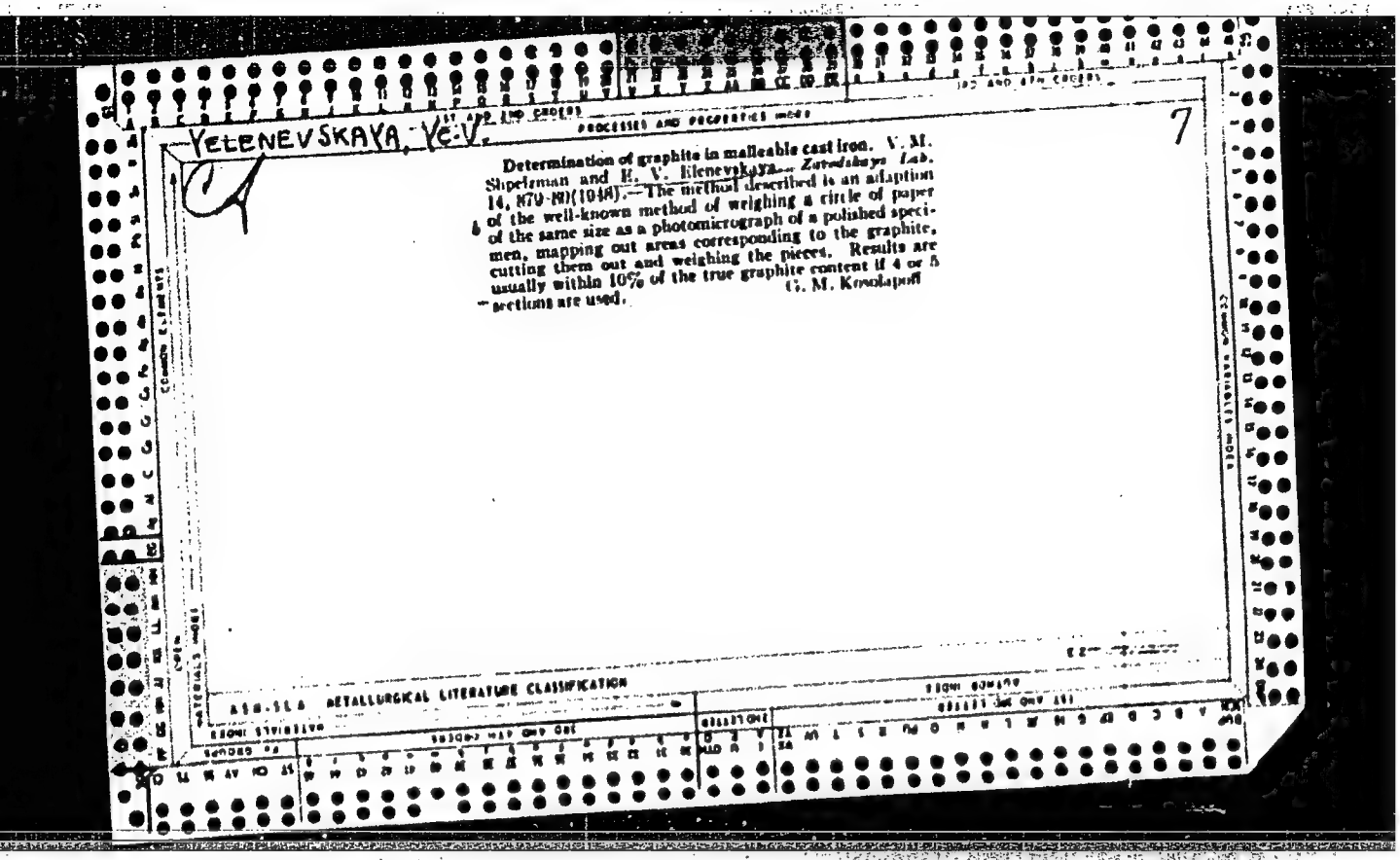

YELENEVSKAYA, Ye. V.

7

Determination of graphite in malleable cast iron. V. M. Shperlman and E. V. Ilenevskaya... *Zavodskaya Lab.* 14, 879-80(1948).—The method described is an adaption of the well-known method of weighing a circle of paper of the same size as a photomicrograph of a polished specimen, mapping out areas corresponding to the graphite, cutting them out and weighing the pieces. Results are usually within 10% of the true graphite content if 4 or 5 sections are used.

G. M. Kondakoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, Ye. V.

Meadows

Working methods of Buryat-Mongol meadows workers, Korm. baza 3 No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKAYA, Ye. V.

Feeding and Feeding Stuffs

All-union conference on feed production. Korm. baza 3 no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. Unclassified.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

New and little-known plants of Armenia. Bot.mat.Gerb. 19: 554-557 '59. (MIRA 12:8)

(Zangezur region--Botany)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

Two Caucasian species of the pink family. Biul. MOIP. Otd. biol. 65 no.5:119-121 S-O '60. (MIRA 13:12)
(CAUCASUS—PINKS)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

Materials on the flora of Zangezur. Izv. An Arm. SSR. Biol. nauki 13 no.4:57-62 Ap '60. (MIRA 13:8)

1. Botanicheskiy institut Akademii nauk ArmSSR.
(ZANGEZUR RANGE--BOTANY)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

Some rare plants hitherto unknown in Armenia. Nauch. dokl. vys. shkoly; biol. nauki no. 1:123-125 '61. (MIRA 14:2)

1. Rekomendovana kafedroy botaniki Moskovskogo gosudarstvennogo pedagogicheskogo instituta im. V.I. Lenina.
(ARMENIA—BOTANY)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

GABRIELYAN, E.TS.; YELENEVSKIY, A.G.

Some remarkable features of the flora and vegetation of Mount Khustup (Zangezur). Izv. AN Arm. SSR. Biol. nauki 14 no.1:41-47 Ja '61. (MIRA 14:3)

1. Botanicheskiy institut AN Armyanskoy SSR i Moskovskiy Gosudarstvennyy pedagogicheskiy institut im. Lenina.
(KAFAN DISTRICT--BOTANY)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

Some plants (controversial) of Transcaucasia. Bot. mat. Gerb. 21:15-19 '61. (MIRA 14:10)

(Transcaucasia--Foxtail)
(Transcaucasia--Birthwort)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

PROSKURYAKOVA, G.M.; YELENEVSKIY, A.G.

Notes on Veronica rubrifolia Boiss. and V. ferganica M.Pop. (MIRA 14:10)
Bot. mat. Gerb. 21:325-327 '61.
(Soviet Central Asia--Speedwell)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

Some rare and controversial plants of Armenia (the crowfoot, mustard, orpine, and rose families). Nauch. dokl. vys. shkoly; biol. nauki no.2: 128-133 '62. (MIRA 15:5)

1. Rekomendovana kafedroy botaniki Moskovskogo gosudarstvennogo pedagogicheskogo instituta im. V.I.Lenina.
(ARMENIA---BOTANY)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

Materials on the flora of Zangezur; Leguminosae. Nauch.kokl.vys. shkoly; biol.nauki no.4:118-120 '62. (MIRA 15:10)

1. Rekomendovana kafedroy botaniki Moskovskogo gosudarstvennogo pedagogicheskogo instituta im. Lenina.
(ZANGEZUR RANGE--LEGUMINOSAE)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

Two new species of Leguminosae from Armenia. Biul.MOIP.Otd.biol. 67 no.3:128-130 My-Je '62. (MIRA 15:11)
(Armenia--Lathyrus) (Armenia--Milk vetch)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, A.G.

Some rare and critical plants of Armenia; Geraniaceae, Linaceae, Euphorbiaceae, Guttiferae, Violaceae, Umbelliferae. Izv.AN Arm. SSR.Biol.nauki 15 no.9:27-34 S '62. (MIRA 15:11)

1. Moskovskiy pedagogicheskiy institut imeni Lenina i Botanicheskiy institut AN Armyanskoy SSR.

(ARMENIA--BOTANY)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, D.S.

122-5-23/35

AUTHOR: Yelenevskiy, D.S. (Engineer)

TITLE: The Effect of Grinding on the Endurance of Case Hardened Components. (Vliyaniye shlifovaniya na vynoslivost' tsementovannykh detaley)

PERIODICAL: Vestnik Mashinostroyeniya, 1957, 37 Nr 5, pp.65-70 (USSR)

ABSTRACT: The specimens of 18XHBA steel were rings of 100 mm outside dia., 78 mm inside dia. and 15 mm width, subjected to 5 variants of heat treatment, producing endurance strengths between 69 and 107 kg/mm^2. These were tested under alternating compression in the plane of the ring in a resonance pulsator. Four variants of heat treatment were associated with ordinary production grinding. The fifth variant differed only by grinding before quenching and tempering. This variant gave the highest endurance strength. The pronounced effect of grinding was more closely studied in another set of tests concerned with different conditions of grinding. Indifferent grinding with burnt spots sharply reduced the endurance below 47 kg/mm^2. Careful grinding by itself maintained an endurance limit of 103 kg/mm^2. Shot-peening of "burnt" specimens increased their endurance strength two-fold to 94 kg/mm^2. The combination of careful grinding and

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The Effect of Grinding on the Endurance of Case Hardened Components.

shot-peening achieved 113 kg/mm^2. Apart from the effects of burning and of grinding cracks, those of decarbonising and, in particular, of residual austenite, were revealed in these tests; the latter could be removed by sub-zero heat treatment. Residual stresses were found by the Sachs method. The association between compressive residual stress and high endurance strength was confirmed in all cases as illustrated in graphs of residual stress against depth.
There are 7 figures, including 5 graphs and 1 photograph, 4 tables and 4 references, including 3 Slavic.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, D.S., inzh.

Residual stresses and strength of cemented-gear teeth. Vest. mash. 38 no.9:10-13 S '58. (MIRA 11:10)
(Gearing)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, D. S., Candidate Tech Sci (diss) -- "Investigation of the fatigue resistance of cemented gears in connection with certain design and technological factors". Moscow, 1959. 14 pp (Min Higher Educ USSR, Moscow Aviation Tech Inst), 170 copies (KL, No 24, 1959, 136)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

SOV/122-59-2-6/34

AUTHOR: Yelanevskiy, D.S., Engineer

TITLE: On the Cause of the Increase of the Endurance of Steel After Case Hardening (O prichine povysheniya vynoslivosti stali pri tsementatsii)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 2, pp 20-24 (USSR)

ABSTRACT: In the relevant literature, one hypothesis makes the case hardened layer entirely responsible for the observed increase in endurance strength under alternating loads in case hardened steel specimens. Another hypothesis allocates the main responsibility to residual stresses in the surface layer. Finally, S.V.Serensen ([illegible] Symposium "Increased Strength of Machine Components" AN SSSR, 1949) asserts that the increase in the hardness of the carburised layer, which leads to a rise in its fatigue strength in the range of initial static compression, is successfully matched with residual stresses arising in case hardening. Experimental evidence is contradictory and the present paper reports on tests to examine the residual stresses in the case hardened layer and to

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On the Cause of the Increase of the Endurance of Steel After Case Hardening

determine the endurance strength of the case hardened layer relieved of residual stresses and of a case hardened steel specimen with known residual stresses. Previous reports vary in their evaluation of the residual stress between 18 and 130 kg/mm^2. The well-proved method of Davidenkov, N.N. ([Ref 13]: Zhurnal Tekhnicheskoy Fiziki, 1939, Nr 12) has been used in the tests reported. Specimens of 100 x 20 mm rectangular cross-section but of different height had their surface layer removed by etching to a depth of 20 microns on the average. 12KhN4A steel, 18KhNVA steel and steel 20 were examined. Gas carburising to a depth of 1.2 mm achieved a carbon content of 1.0 to 1.2% with a hardness of 58 to 60 Rockwell C. The distribution of residual stress (Fig 1) shows a surface peak compressive stress of about 100 kg/mm^2, dropping rapidly to about 20 kg/mm^2 at a depth of 0.1 mm. This remains constant until the end of the carburised layer is reached. Residual austenite, as in 12Kh2N4A steel changes the pattern. At a depth of 0.2 mm, where the

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On the Cause of the Increase of the Endurance of Steel After Case Hardening

residual austenite is found, the residual stress vanishes but rises again at a greater depth. In 18KhNVA steel specimens, with even more residual austenite, tension stresses up to 30 kg/mm^2 appear on the surface. The ratio of case depth to specimen thickness (relative depth) has a decisive effect on the residual stress. A range of 0.024 to 0.3 was examined. The peak stress drops substantially from about 120 kg/mm^2 with a relative case depth of 0.3 to about 70 kg/mm^2 with a relative case depth of 0.024. The evenly distributed stress level remains substantially constant at 20 kg/mm^2. It is concluded that the even stress distribution invariably amounts to 10 to 20 kg/mm^2. It is usually assumed that structural transformations are responsible for residual stresses in the case but metallographic analysis does not confirm this view. Moreover, the top layer of case hardened steel is somewhat de-carburised. In one set of tests, it was found that specimens with a surface layer ground away before quenching had the same

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On the Cause of the Increase of the Endurance of Steel After Case Hardening

peak stresses as ordinary specimens. In another set of tests, the residual stresses were determined in specimens subjected to "dummy" case hardening. The same peak stresses have been obtained. It is concluded that the peak stresses at the surface in case hardened steel are unconnected with the carbon saturation and are due entirely to temperature stresses. The evenly distributed stress occurring at a depth of 0.1 mm and over however, is a tensile stress in the absence of a carburised layer and amounts to only a few kg/mm^2. Hence, this part of the residual stress distribution is due to structural transformations. A special method for obtaining a stress relieved carburised layer was developed. The rectangular specimen was case hardened all round to a depth of 1.5 mm (hardness of 60 Rockwell C). After quenching, a working specimen was cut, whose thickness at the bottom of a notch was 1 mm. The middle part of the specimen over a length of 10 mm constituted a stress-relieved case hardened layer. Half of these specimens, after quenching, had 0.02 to 0.03 mm removed

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On the Cause of the Increase of the Endurance of Steel After Case Hardening

by lapping, the others remained untouched. Specimens subjected to dummy case hardening as well as hardened and tempered specimens of the same shape, size and hardness were prepared with hardnesses of 51 and 41 Rockwell C, respectively. All specimens were made of 12Kh2N4A steel. The tests were carried out in flexure with a symmetrical cycle. The fatigue curves (Fig 6) show that specimens with a stress-relieved case hardened layer have a fatigue strength of 90 kg/mm^2 when lapped and 78 kg/mm^2 without lapping. Specimens subject to dummy case hardening have a fatigue strength of 42 kg/mm^2. Hardened and tempered specimens of 60 kg/mm^2. Tubular specimens of 12Kh2N4A steel (Fig 7) were made with a wall thickness in the working length amounting to 1 mm. Through-carburising was used to obtain a stress-relieved layer. The carbon content and micro-structure were thoroughly controlled. The specimens were not machined after quenching. Similar specimens subject to dummy case hardening (32 Rockwell C)

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On the Cause of the Increase of the Endurance of Steel After Case Hardening

were tested. The fatigue tests took place in tension-compression on resonance type and hydraulic pulsators. The tests show (Fig 7) that carburised specimens with a fatigue strength of 54 kg/mm^2 were superior to uncarburised (36 kg/mm^2). Residual tension stresses sharply reduce the fatigue strength. Residual compressive stresses increase the fatigue strength, though not at the same rate. Fig 7 also shows the effect of the residual stresses on the fatigue strength both for carburised and non-carburised specimens. The effect of residual stresses was tested with the help of flat smooth specimens in 12Kh2N4A steel of 8 mm thickness. The effect of the scale factor due to the difference between the wall thickness of 1 mm in the stress-relieved carburised layer and 8 mm in the residual stress specimens was estimated to be 13%. It follows that the residual compressive stresses found in the carburised layer of case hardened steel have little effect on its fatigue strength. The remaining increase of about 12%

 is due to the evenly distributed stress level in the

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On the Cause of the Increase of the Endurance of Steel After Case Hardening

case. To verify this conclusion, 6 sets of specimens of 12Kh2N4A steel with different properties of the surface layer were tested. Half of these had the de-carburised surface layer removed by polishing. This increased the fatigue strength by 10 to 30%. Another set of specimens had different hardness values. The fatigue strength was found to be directly proportional to the hardness. There are 10 figures and 18 references, 14 of which are Soviet and 4 English

Card 7/7

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18 1120

S/122/60/000/010/003/015
A161/A030

AUTHORS: Yelenevskiy, D.S., Candidate of Technical Sciences, and Shneyerson, L.M., ~~Engineer~~

TITLE: Fatigue Resistance of Thermo-Chemically Hardened Steel Parts in Work with Asymmetrical Load Cycles

PERIODICAL: Vestnik mashinostroyeniya, 1960, No.10, pp. 17-22

TEXT: The authors tested case hardened and nitrided 12Х2Н4А (12Kh-2N4A) and 40ХНМА (40KhNMA) steel specimens. Case hardened specimens were tested in bending and twist and nitrided specimens in twist only. The information includes calculations. The results lead to the conclusion that the effect of thermo-chemical treatment depends considerably on the degree of asymmetry of the work load cycle, rising to the maximum at symmetrical load and dropping with increasing asymmetry. It was apparent that hardened layer properties and not interaction with the core metal has the determining effect, and this may be considered in calculations of fatigue resistance reserve. If a stress limit diagram (Fig.7) obtained in tests of full-scale machine parts is available, the resistance reserve for the case of cycle

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Fatigue Resistance of Thermo-Chemically Hardened Steel Parts in Work with Asymmetrical Load Cycles

similarity may be determined by the formula

$$n = \frac{(\sigma_{-1K})_D}{\sigma_a + \psi_2 \sigma_m} , \qquad (1)$$

where $(\sigma_{-1K})_D$ is the durability limit of the part in symmetrical cycle, and ψ_2 the diagram reduction factor. But as such a diagram is seldom available, a diagram of smooth unhardened laboratory specimens has to be used and the known formula

$$n = \frac{\sigma_{-1}}{(K_\sigma)_D \sigma_a + \psi_1 \sigma_m} , \qquad (2)$$

In all gear teeth failure cases known to the authors the fatigue sources were on the layer surface, and in fatigue failure of case hardened bevel gear rims there were characteristic sub-layer failures caused by resonance

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A161/A030

Fatigue Resistance of Thermo-Chemically Hardened Steel Parts in Work with Asymmetrical Load Cycles

vibration which was produced by pitch inaccuracy. It is obvious that the surface finish of hardened layer has a decisive effect on the fatigue resistance of parts working with asymmetrical load cycles. It had been previously found by the authors that work hardening by shot blasting considerably neutralized the detrimental effect of grinding burns and residual tension stresses. Work hardening prevents the fatigue lamination and "polar" failure of gear teeth (Ref. 2-4). Electrolytic polishing of the ground spur and bevel gears ensures effective flanking and "bombination" ("bombinirovaniye") of gear teeth and improves the finish, which in turn raises the scar resistance of teeth. In the authors' experiments, electro-polishing raised the fatigue limit of case hardened specimens in the pulsating work cycle by 5-35%, depending on the preceding surface finish. There are 10 figures and 5 Soviet references.

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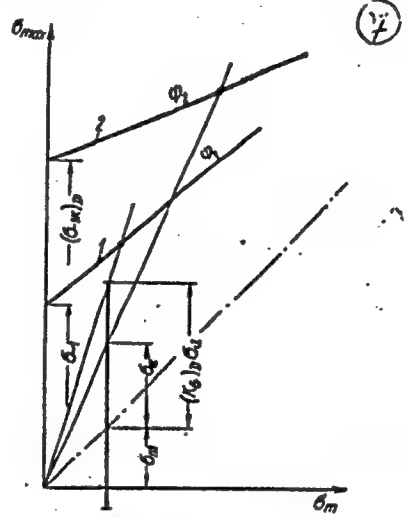
Fatigue Resistance of Thermo-Chemically Hardened Steel Parts in Work with Asymmetrical Load Cycles

Fig. 7 : Diagram of stress limit

1 - line for smooth laboratory specimens

2 - line for full-scale parts



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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YENIKEYEVSKIY, S. S. and L. M. SIMKHOVICH

On the Breakdown of Gear Teeth Along the Pitch-Line on the Tooth Surface.

Povysheniye iznosostoykosti i sroka sluzhby mashin. t. 2 (Increasing the Wear Resistance and Extending the Service Life of Machines. v. 2) Kiyev, Izd-vo AN UkrSSR, 1960. 290 p. 3,000 copies printed. (Series: Its: Trudy, t. 2)

Sponsoring Agency: Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Tsentral'noye i Kiyevskoye oblastnoye pravleniya. Institut mekhaniki AN UkrSSR.

Editorial Board: Resp. Ed.: B. D. Grozin; Deputy Resp. Ed.: D. A. Braygor; M. P. Braun, I. D. Faynerman, I. V. Kragel'skiy; Scientific Secretary: M. L. Barabash; Ed. of v. 2: Ya. A. Samokhvalov; Tech. Ed.: N. P. Rakhlina.

COVERAGE: The collection contains papers presented at the Third Scientific Technical Conference held in Kiyev in September 1957 on problems of increasing the wear resistance and extending the service life of machines. The conference was sponsored by the Institut stroitel'noy mekhaniki AN UkrSSR (Institute of Structural Mechanics of the Academy of Sciences Ukrainian SSR), and by the Kiyevskaya oblastnaya orgainzatsiya nauchno-tekhnicheskogo obshchestva mashinostroitel' noy promyshlennosti (Kiyev Regional Organization of the Scientific Technical Society of the Machine-building Industry).

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, D.S.; SHNEYERSO, L.M.

Strength of steel parts subjected to chemical heat treatment in case of asymmetric cycles of loading. Trudy Sem.po kach.-poverkh. no.5:156-162 '61. (MIRA 15:10)
(Case hardening)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

S/514/61/000/005/007/014
I007/I207

AUTHOR: Yelenevskiy, D.S. and Kheyerson, L.K.

TITLE: Endurance limit under asymmetric cyclic loads, of steel components subjected to combined chemical-heat treatment hardening

SOURCE: Akademiya nauk SSR. Komissiya po tekhnologii mashinostroyeniya. Seminar po kachestvu poverkhnosti. Trudy. no.5, 1961. Kachestvo poverkhnosti detaley mashin; metody i pribory, uprochneniye metallov, tekhnologiya mashinostroeniya, 156-162

TEXT: Results are reported of investigations carried out both on nonhardened and surface hardened test-specimens of cemented and nitrided alloy steels. These investigations were of particular importance since so far tests were carried out mainly under symmetrical loading. Cemented test-specimens were tested in bending and twisting, whereas nitrided specimens were tested in twisting only. As a results of tests, diagrams of limiting loads were plotted. Ample analysis is made of the test results and a formula for determining the safety margin of chemically coated components is derived. The influence of final maching of certain cemented components on their resistance to asymmetric loads, was investigated and it was found that shot-

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I007/I207

Endurance limit under...

peening treatment improves endurance limit. A new process for electrolytic polishing of ground cylindric and bevel gears was developed and adopted in practice Abstractor's note: see reference 11 in this paper. L.M. Shneyerson "Branch of VNIITI, sb.1,no.4-59-332/5, 1959 . This process greatly improves the profile of the gears and hence their anti-seizing properties. Tests also showed electrolytic polishing to improve endurance limit of components subjected to pulsating cyclic loads, by 5-35% in dependence on the degree of previous machining. There are 4 figures and 1 table.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, G. S.

Raschet kol'tsa na mnogikh oporakh pod deistviem aksial'nykh nagruzok. Moskva, 1935. 32 p., tables, diagrs. (TSAGI. Trudy, no. 207)

Summary in English.

Title tr.: Stress analysis of an axially loaded ring resting on many supports.

QA911.M65 no. 207

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, G. S.

Rabota dvukhlonzheronnogo trapetsoidal'nogo kryla na kruchenie. Moskva, 1935, 130 p., tables, diagrs. (TSAGI. Trudy, nol 208)

Summary in English

Title tr.: Stress analysis of a two-spar tapered wing under torsion.

CA911.M65 no. 208

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, G. S.

O raschete na prochnost' lodki s uchetom poteri ustoichivosti prodol'nogo nabora. Moskva, 1937. 42 p., tables, diagrs. (TSAGI. Tekhnicheskie zametki, no. 145)

Title tr.: Calculation of the structural strength of thin-walled hulls with due consideration given to buckling of longitudinal members.

TL570.M6 no. 145

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, G. S., and V. M. DARESVKII.

Kruchenie dvukhlonzheronnogo piramidal'nogo kryla s nepreryvno raspolozhennymi zhest kimi na izgib nerviurami. Moskva, 1937, 44 p., illus., tables, diagrs. (TSAGI. Trudy, no. 292)

Summary in English.

Title tr.: Torsion of a two-spar pyramidal wing with closely spaced ribs of great stiffness.

QA911.M65 no. 292

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, G. S., and others.

Raschet na prochnost' metallicheskikh lodok gidrosamoletov. (TSAGI. Trudy, 1940, no. 488, illus.)
Title tr.: Stress analysis of hulls of flying boats.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENGVSKIY, G.S.

PHASE X TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 754 - X

Call No.: AF653756

BOOK
Author: YELENEVSKIY, G. S.
Full Title: STRUCTURAL MECHANICS OF A VARIABLE SECTION WING
Transliterated Title: Stroitel'naya mekhanika kryla peremennogo secheniya

PUBLISHING DATA
Originating Agency: None
Publishing House: State Publishing House of the Defense Industry
Date: 1954 No. pp.: 228 No. of copies: Not given
Editorial Staff: None

PURPOSE AND EVALUATION: The book is destined for design and calculating engineers and may also be used by students of aviation institutions of higher learning. The book is interesting as an advanced study of strength of contemporary aircraft.

TEXT DATA
Coverage: The book contains the statement of a method of calculation of stresses and deformations of the wing of an aircraft, taking into account the varying surfaces of the sections of the longitudinal wing assembly, the thickness of the skin, and also the conical shape of the wing. The theories of the calculation of the wing are based on the theory of the prismatic bar, adapted to the calculation of wings by Belyayev, V. N.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

Stroitel'naya mekhanika kryla peremennogo secheniya AID 754 - X

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Stroitel'naya mekhanika kryla peremennogo secheniya AID 754 - X

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No. of References: Total 34, Russian 24, 1932-1951, others, 1932-1946. 226-227

Facilities: None

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

Name: YELENEVSKIY, Georgiy Sergeyevich

Dissertation: Structural mechanics of a wing of variable cross-section

Degree: Doc Tech Sci

Affiliation: [Not indicated]

Defense Date, Place: 24 Dec 56, Council of Moscow Order of Lenin Aviation Inst imeni Ordzhonikidze

Certification Date: 5 Oct 57

Source: BMVO 23/57

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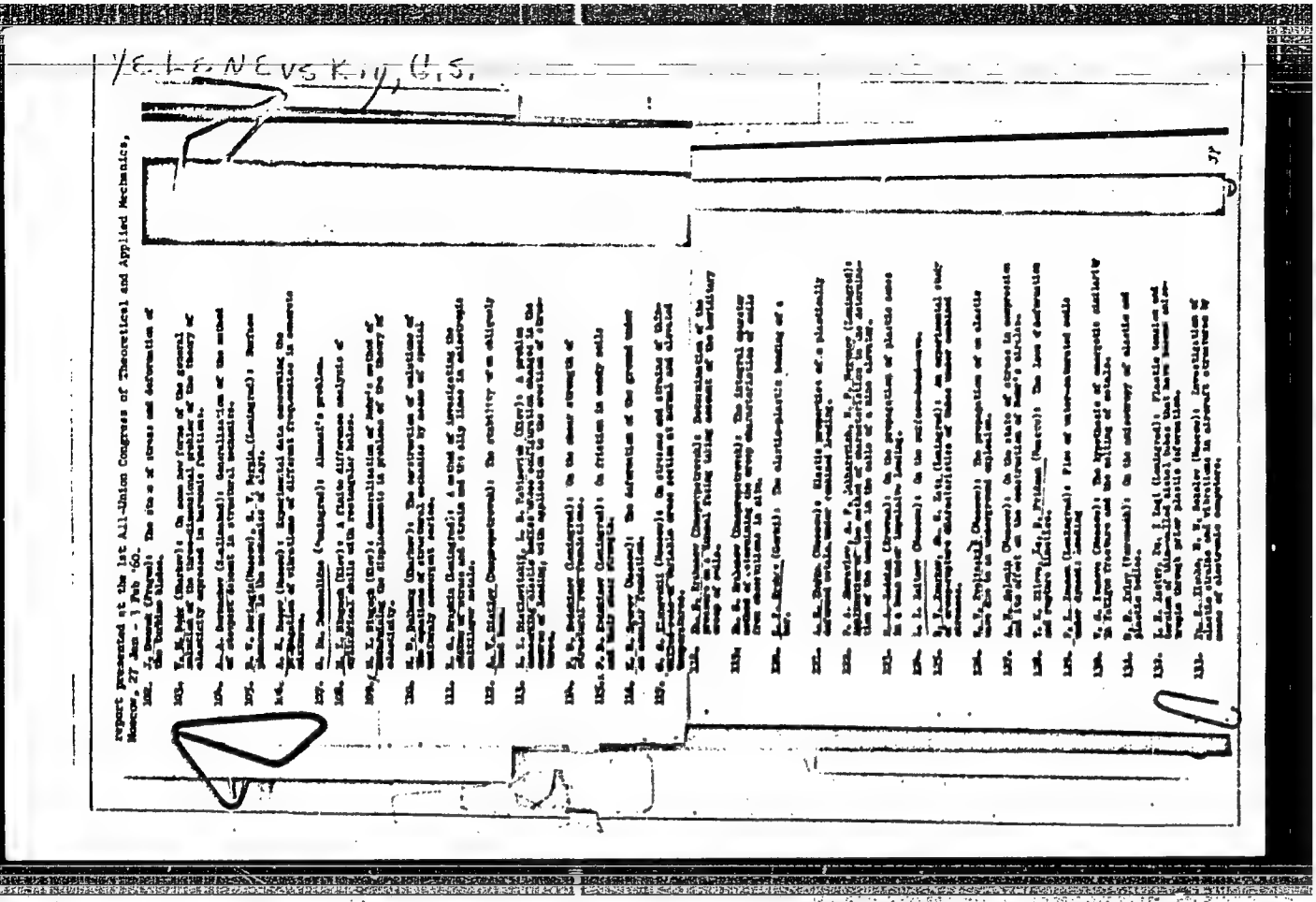

/ E. L. E. N E V S K I I, U. S.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

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YELEISEYSKIY, K. F.

DECEASED c-1949-

"A Case of Leimyoma of the Small Intestine Unique in Form and Origin," Khirurgiya, No. 8, 1949.

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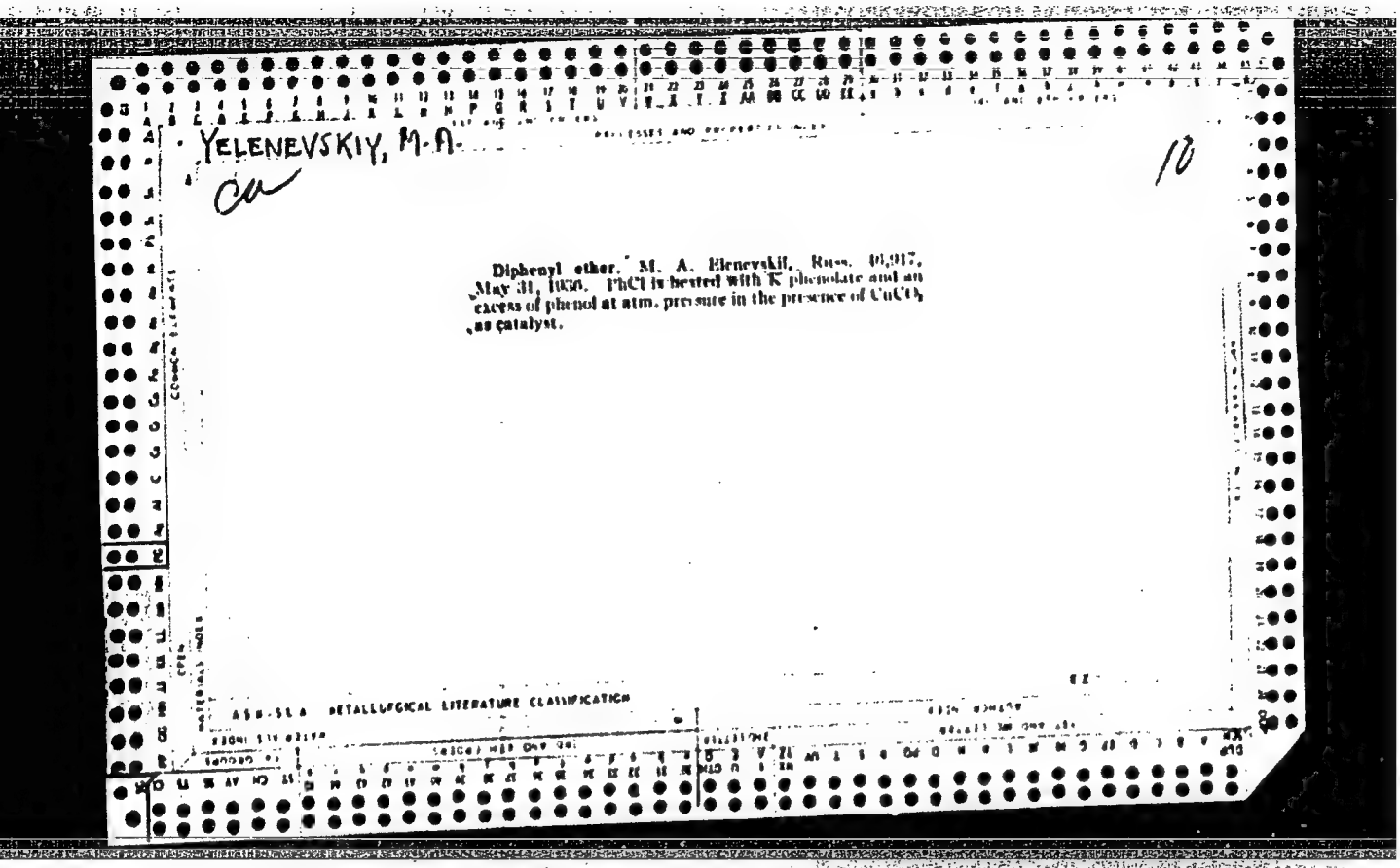

YELENEVSKIY, M.A.

Ca

10

Diphenyl ether. M. A. Elenevskii. Russ. 10,917, May 31, 1930. PhCl is heated with K phenolate and an excess of phenol at atm. pressure in the presence of $CuCl_2$ as catalyst.

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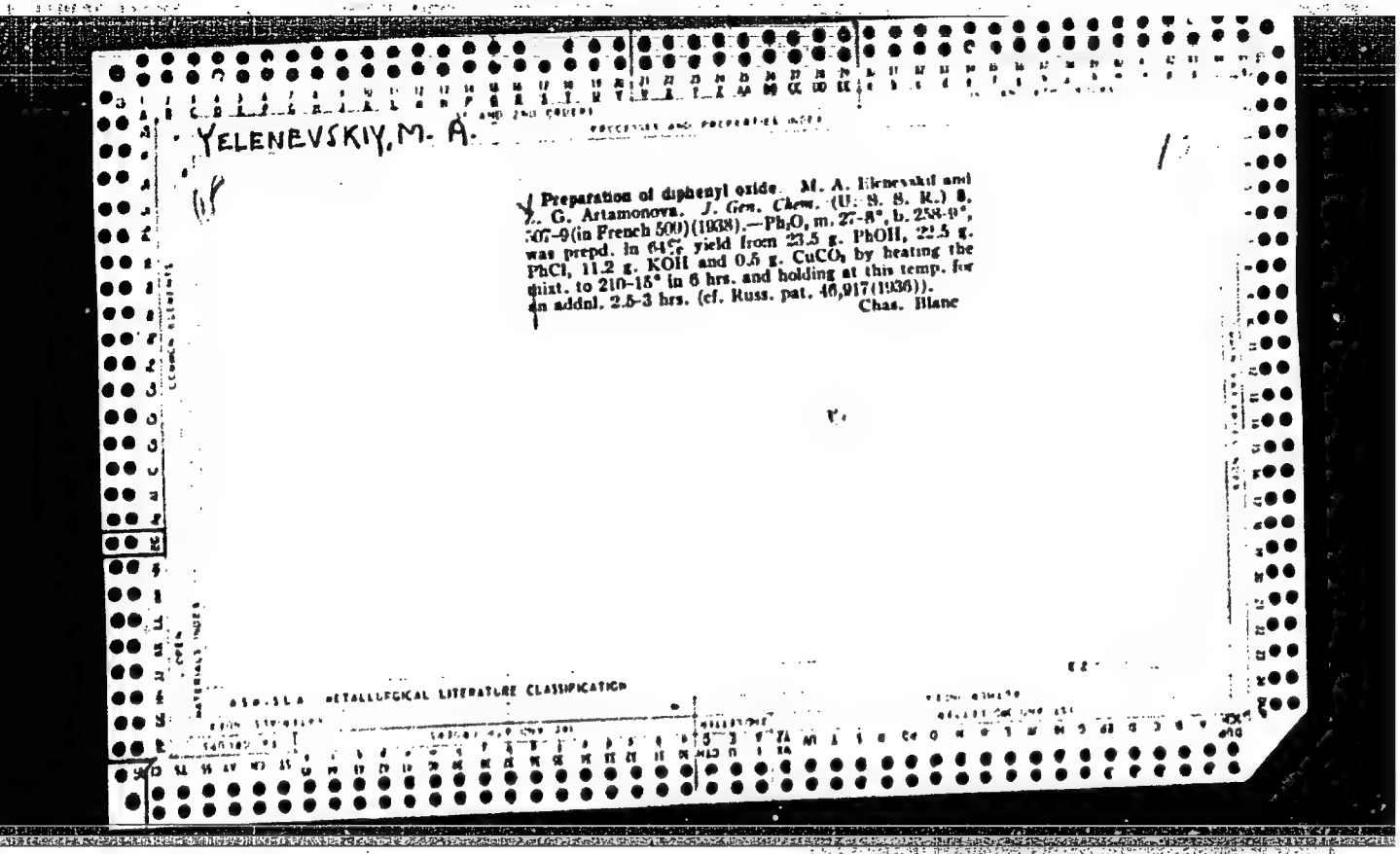

YELENEVSKIY, M. A.

Preparation of diphenyl oxide. M. A. Yelenevskiĭ and V. G. Artamonova. *J. Gen. Chem.* (U. S. S. R.) 8, 707–9 (in French 709) (1938).—Ph_2O, m. 27–8°, b. 258–9°, was prepd. in 64% yield from 23.5 g. PhOH, 22.5 g. PhCl, 11.2 g. KOH and 0.5 g. $CuCO_3$ by heating the mixt. to 210–15° in 6 hrs. and holding at this temp. for an addnl. 2.5–3 hrs. (cf. Russ. pat. 46,917 (1936)).
Chas. Blanc

METALLURGICAL LITERATURE CLASSIFICATION

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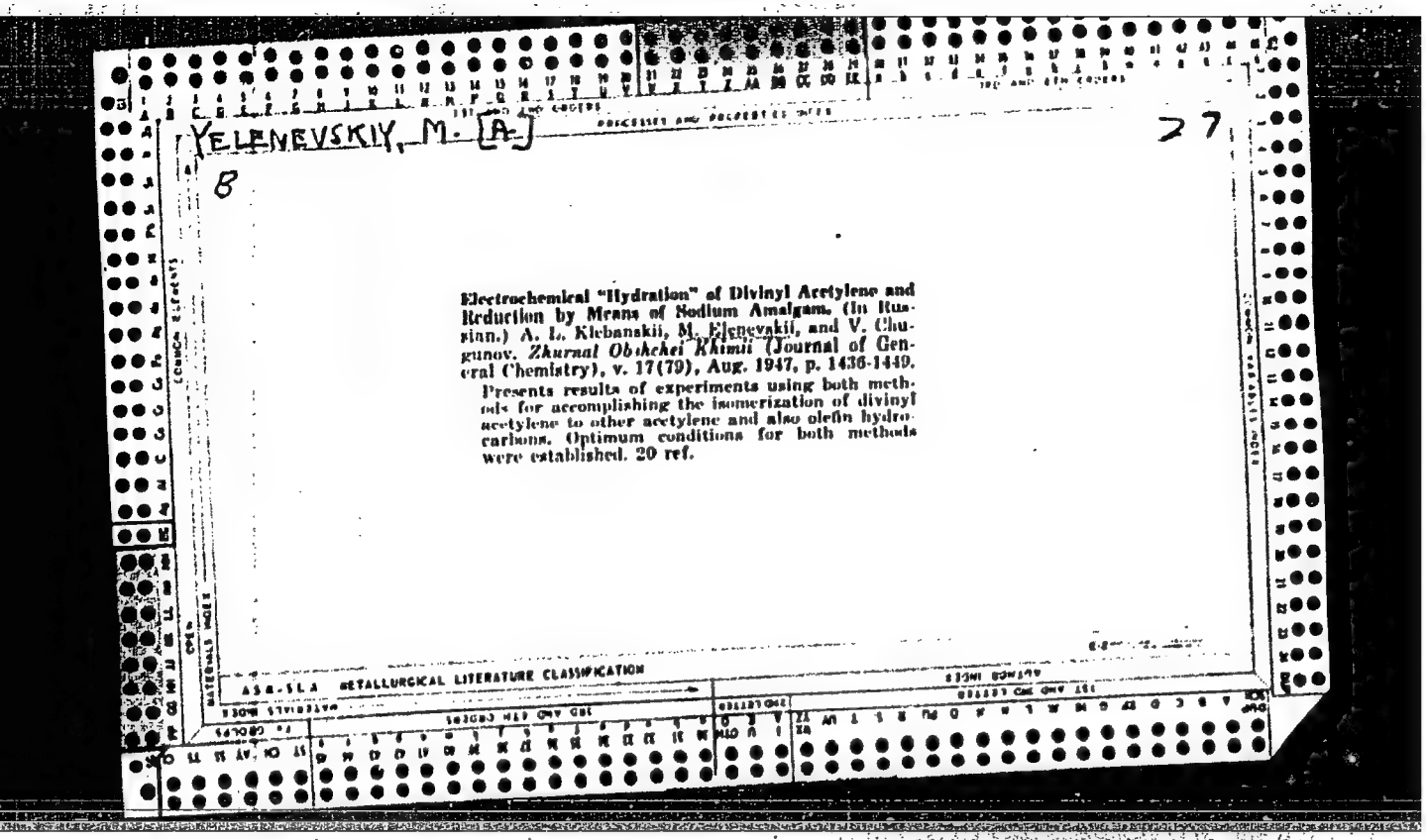

YELENEVSKIY, M. [A.]

B

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Electrochemical "Hydration" of Divinyl Acetylene and Reduction by Means of Sodium Amalgam. (In Russian.) A. L. Klebanskii, M. Elenevskii, and V. Chuginov. *Zhurnal Obshchei Khimii* (Journal of General Chemistry), v. 17(79), Aug. 1947, p. 1436-1449.

Presents results of experiments using both methods for accomplishing the isomerization of divinyl acetylene to other acetylene and also olefin hydrocarbons. Optimum conditions for both methods were established. 20 ref.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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YELENEVSKIY, N.N.

Design of geodetic bench mark frameworks in cities. Geod. i kart. no.6:18-27 Je '57. (MLRA 10:8)
(Bench marks) (Triangulation)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

AUTHOR: Yelenevskiy, N. N. SOV/6-58-7-7/19

TITLE: On the Problem of Pre-Determining Errors in Engineering Surveys (K voprosu o predvychislenii oshibok stroitel'noy setki)

PERIODICAL: Geodeziya i kartografiya, 1958, Nr 7, pp. 39-41 (USSR)

ABSTRACT: In the article "Determination of the Accuracy of an Engineering Lines and Grades System", by N. G. Viduyev, Doctor of Technical Sciences, which was published in Geodeziya i kartografiya, 1957, Nr 8, formulae for the predetermination of the weights and of the errors of point locations in an engineering lines and grades system and the method of successive approximation was suggested for solving this problem. Despite the simplicity of the formulae a great amount of work must be done when this method is used, as the weights of all unknowns must be determined. In practical work, however, only the error at the weakest point of the lines and grades system must be known. For comparison the weights are determined at the same example as was used by Viduyev using the method of intermediate measurements. It appears that the results obtained markedly differ from those found by Viduyev. This

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On the Problem of Pre-Determining Errors in Engineering Surveys

discrepancy can be explained by the fact that the method of Viduyev can only be applied to referenced lines and grades systems and not to free systems. In Geodeziya i kartografiya, 1957, Nr 6, a method of determining the weights in leveling networks is advanced by the author. This method can also be used in the computation of the weights in polygonometric or theodolite networks. Formula (2) is recommended for the pre-determination of the errors in polygonometric networks, after the weakest point of the system has been computed. There are 2 figures, 2 tables, and 3 references, which are Soviet.

1. Mapping 2. Geophysical surveying—Errors 3. Theodolites—Performance 4. Theodolites—Calibration

Card 2/2

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, N.N.

The project of the "Directions for engineering explorations in city and village construction." Geod.i kart. no.2:48-57 F '60. (MIRA 13:6)
(Topographical surveying)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, N.N.

Calculating the precision of the intersection by interior angles. Geod. i kart. no.8:33-40 Ag '65. (MIRA 18:9)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, R. A. and others.

ELENEVSKII, R. A. and others. Prirodnye resursy IUzhnoi IAkutii v sviazi s sotsialisticheskoi rekonstruktsiei sel'skogo khoziastva. Moskva, Gos. izd-vo kolkh. i sovkh. lit-ry, 1933. 147 p. DLC: S471.R9P73

SO: LC, Soviet Geography, Part I, 1951, Uncl.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, R. A.

Problems in the study and utilization of flood lands Moskva, Vses. akademiia sel'khoz. nauk im. V. I. Lenina, 1936. 99 p.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

[redacted], A. A.

35981 O parkovykh vysokotravnykh klenovnikakh kavkazskogo zapovednika. Nauch.-metod. Zapiski (Sovet ministrov rsfsr, Glav. Upr. po zapovednikam), Vyp. 12, 1949, S. 330-33

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, R.A.

35949 azmychskoye vysokogornoye boloto zapadnogo kavkaza. nauch-metod. zapiski (sovet ministroy rsfsr, glav. upr. po zapovednikam), vyp. 12, 1949, S. 334-38

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

33980 Yezna V subal'pike Kavkazskogo zapovednika nauch.-metod. Zapiski (Sovet ministrov rsfsr, Glav. Upr. po zapovednikam). V. 12, 1949, S. 339-41

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY,V., kandidat tekhnicheskikh nauk

Improvement works for earthen road beds. Zhel.dor.transp. no.8: 66-71 Ag'47. (MLRA 8:12)

1. Direktor-polkovnik puti i stroitel'stva
(Railroads--Earthwork)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENEVSKIY, V.G.

Control of venereal and skin diseases in the Apollon district of the Stavropol Territory. Vest. derm. i ven. 37 no.8:59-63 Ag '63 (MIRA 17:4)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

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YELENEVSKIY, V. V.

Zehleznodorozhnoe stroitel'stvo v usloviiakh merzloty; novye metody stroitel'stva v raionakh merzloty i glubokogo promeraaniia. [Railroad construction under conditions of frozen grounds: new methods of construction in regions with frozen and deeply frozen grounds]. Moskva, Transzheldorizdat, 1936. 238 p. illus., maps.
"Ispol'zovannye raboty": p. 235-[236].

DLC: TA710.E4

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENIN, A., kapitan

Light of a beacon. Voen. vest. 42 no.6:10-11 Je '62.
(MIRA 15:6)
(Bomb reconnaissance)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YAKUBOV, A.; YELENIN, M.

A legend that became reality. Sov.mor. 17 no.14:8-9 Jl '57.
(MLRA 10:9)
(Uzbekistan--Economic conditions)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENIN, M. Ya.

86-8-18/22

AUTHOR: Yelenin, M. Ya.

TITLE: Skill Developed in Searching for the New (Masterstvo, rozhdayemoye v poiskakh novogo)

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 8, pp.85-87 (USSR)

ABSTRACT: Pilot Ivan Polunin graduated from the Kacha Aviation School in 1929. In 1932 he commanded an aviation brigade in Belorussia and served for some time as inspector of pilot-ing technique of the Zabaykal'skiy Military District Air Force. At the outbreak of World War II, Maj. Polunin was serving in a regiment stationed West of Belostok where he trained pilots to fly new MiG-3 fighters. He took part in the defense of Moscow, and later trained aviation reserves in the Volga district. Lt.Col. Polunin was the first SAF line pilot to fly a jet (Sept 29th, 1946), the first to perform acrobatics in a jet fighter (YAK-15) at the Air Force Day Parade, Aug 3d, 1947, and the first to lead a flight of YAK-15's in formation. Hero of the Soviet Union Colonel Khramov, a World War II veteran with 18 enemy planes and over one hundred combat sorties to his credit, followed the example of Lt Col Polunin and made some

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Skill developed in Searching for the New (Cont.) 86-8-18/22

further improvements in jet piloting technique. At the Air Force Day Parade, Aug 3d, 1947, Cols. Khramov, Yefremov and Solov'yev were the first pilots in the world to perform group acrobatics in jet aircraft. A diagram of the "swing" performed by Lt Col Polunin over the Tushino airfield shows the path of the aircraft and the maneuvers made by the pilot.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENIN, S.N.; DORENSKIY, M.I.

Apparatus for washing the sand of slow filters. Vod.i san. tekh. no.8:33-34 Ag '60. (MIRA 13:7)
(Filters and filtration)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENIN, S.N., inzh.

Hydraulic level controller for liquids with coarse digested sludge particles. Gor. khoz. Mosk. 34 no.9:35-36 S '60. (MIRA 13:9)

(Sewage--Purification)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENIN, S.N.; DAGAYEV, P.F.

Addition of ammonia without mixing. Vod. i san. tekh. no.6:40 Je '62. (MIRA 15:7)

1. Glavnyy mekhanik Rublevskoy vodoprovodnoy stantsii (for Yelenin). 2. Nachal'nik tsekha ochistki vody Rublevskoy vodoprovodnoy stantsii (for Dagayev).
(Water—Purification)
(Ammonia)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENINA, D.

"Mother's diary." Reviewed by D. Elenina. Zdorov'e 7 no. 2:29 F '61. (MIRA 14:2)

(INFANTS—CARE AND HYGIENE)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

SAVICH, V. P., YELENKIN, A. A.

Lichens - Russia, Asiatic

Introduction to the lichens of the Asiatic part of the U.S.S.R. *Trudy Bot. Inst. AN SSSR.*, Ser. 2, No. 6, 1950

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENKIN, A. A., LIDIA, OL'.

Algae - Bibliography

Supplementary bibliography of works on algae found within the confines of the USSR. Trudy Bot. inst. AN SSR No. 6, 1950. (Ser. 2)
Systematic list of the fresh-water green algae found within the confines of the USSR up to 1938 with critical comment.
Trudy Bot. inst. AN SSR Ser. 2, No. 6, 1950

Monthly List of Russian Accessions, Library of Congress, June 1952 Unclassified

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENKIN, A.A.

Together with V.L.Komarov in the Eastern Sayans; from a travel diary (with an introductory article by V.I.Polianskii). Trudy Inst.ist.est. i tekh. 16:253-334 '57. (MIRA 10:10)
(Sayan Mountains--Description and travel)
(Elenkin, Aleksandr Aleksandrovich, 1873-1942)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENKOV, D.; KOLEV, N.

Effect of foam-forming substances on scrubber hydrodynamics.
Khim.prom. no.10:761-764 O '62. (MIRA 15:12)
(Scrubber (Chemical technology))

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENKOV, D. [Elenkov, D.]; BOZHOV, I.

Influence of surface-active admixtures on the hydrodynamics of sieve downcomerless trays. Doklady BAN 17 no.8:733-736 '64.

1. Predstavleno akad. D.Ivanovym.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENKOV, Ye.

BULGARIA/Plant Diseases. Diseases of Cultivated Plants. O-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25355.

Author : Yelenkov, Ye.
Inst :
Title : The Reaction of Pepper Varieties to Verticillium Wilt. Preliminary Report.
(Reaktsiya sortov pertsa na vertitselleznoye uvyadaniye (Predvaritel'noye soobshcheniye).

Orig Pub: Byul. rastit. zashchita, 1957, 6, No 1, 32-37.

Abstract: No abstract.

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YELENKOV, Ye.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENKOV, Ye.

BULGARIA/Plant Diseases - Diseases of Cultivated Plants. O.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15998

Author : Yelenkov
Inst : -
Title : The Effect of Irrigation on Vegetable Crop Diseases. (Vliyaniye orosheniya na zabolevaniya ovoshchnykh kul'tur).

Orig Pub : Ovoshcharstvo i gradinarstvo, 1957, No 6, 39-41.

Abstract : No abstract.

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YELENKOV, Ye. Bulgaria O

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

CATEGORY : Plant Diseases. Diseases of Cultivated Plants.
ABS. JOUR. : RZBiol., No. 12, 1958, No. 54021

AUTHOR : Yelenkov, Yelenko
INST. : Not given
TITLE : Cladosporium Infection in Cucumbers (In Bulgaria)

ORIG. PUB. : Ovoshcharstvo i gradinarstvo, 1957, No. 10, 41-45
ABSTRACT : No abstract

CARD: 1/1

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

BULGARIA / Chemical Technology. Chemical Products and Their Application. Chemical Engineering. H-2

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1544.

Author : Yelenkov, D.
Inst : --
Title : The Absolute Solubility Rate of Gypsum in a Closed System.

Orig Pub: Godishnik Khim.-tekhn. in-t, 1956 (1957), No 1, 1-10.

Abstract: The absolute solubility rate (SR) of gypsum was studied by the flow of distilled water inside a horizontal tube containing gypsum. The relationship between SR and flow speed, in turbulent and laminar regions was determined. In the laminar region SR agrees with the hydrodynamic theory of convective diffusion. For the turbulent region the following equation is suggested:

$$Nu = 9.42 \times 10^{-5} \cdot Po - 152.5,$$

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

BULGARIA / Chemical Technology. Chemical Products and Their Application. Chemical Engineering. H-2

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1544.

Abstract: where Nusselt's diffusion is Nu = d/D where is the diffusion rate, d is the diameter of a tube and D is the diffusion coefficient), and the diffusion criterion of Pecle is Pe = wd/D.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENKOVA, N.

Germany/Physical Chemistry - Electrochemistry, B-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61190

Author: Trifonov, A., Yelenkova, N.

Institution: None

Title: Polarographic Investigation of the Complex of As(3) with Tartaric Acid

Original Periodical: Polarographische Untersuchung des Arsen (III) Komplexes mit der Weinsaeure, Z. phys. chem. (DDR), 1956, 205, No 3, 123-137; German

Abstract: Investigation of polarographic reduction of the complex of H_3ASO_3 (I) with tartaric acid (II) having the assumed composition $M(ASO)C_4H_4O_6$ (III) where $M = Na^+$, K^+ or NH_4^+. With Na_2SO_4 (~0.1 M) background were obtained well defined limit currents (I_1) proportional to the concentration of III (C_3) in the C_3 interval 10^{-4} - 10^{-2} M, linearly depending on $\sqrt{h}$ and having a temperature coefficient ~2%. $E_{1/2}$ depends on C_3 and temperature. At constant concentration of I (C_1) and increasing concentration of II (C_2),

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

Germany/Physical Chemistry - Electrochemistry, B-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61190

Abstract: I_1 increases if $C_2 < C_1$ (in ekv). With $C_2 \geq C_1$ I_1 = const. With $C_2 > C_1$ there appear second (I_2) and third (I_3) waves. With increasing C_2 I_2 increases at first and thereafter reaches a constant value. I_3 increases with C_2 and decreases of C_1. With $C_2 \gg C_1$ the polarographic curves show sharp maxima the heights of which are proportional to C_1. It is assumed that I_1 is determined by reduction of III, during which H ions are consumed in amount proportional to C_3; I_2 is associated with emission of hydrogen, catalyzed by As, formed on reduction of III; I_3 is due to reduction of H^+ ions, formed on dissociation of II and not used up in the first 2 processes. According to equation of Il'kovich it was found that in the reaction take part 3 electrons. A scheme is given of the reduction of III. It is reported that waves suitable for analytical purposes are also obtained with a background of KCl, KNO_3, and $CaCl_2$. With $NH_3 + NH_4Cl$ background at pH 8.3-10.7 only one wave is formed the height of which is proportional to C_1.

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COUNTRY : Bulgaria E-2
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 86183

AUTHOR : Pavlov, D.; Yelenkova, N.
INST. : Chemical Institute, Bulgarian Academy of Sciences
TITLE : Absorption of Arsine by Potassium Iodate Solution and Its Use in Polarographic Determination of Arsenic.
ORIG. PUB. : Izv. Khim. in-t. B"lg. AN, 1958, 6, 33-43

ABSTRACT : A method has been developed for determination of As, based on reduction of As to AsH_3, absorption of AsH_3 by standard solution of KIO_3, and polarography of unreacted IO_3. The sample is treated with a current of H_2 (Zn in 30% H_2SO_4). The evolved AsH_3 is absorbed in 20 ml of a mixture having the composition: 2 N H_2SO_4, 0.00755 N KIO_3 and 0.00037 M $Ce(SO_4)_2$; completeness of absorption is checked with 10% ammoniacal solution of $AgNO_3$ (duration of absorption 30-40 minutes). $Ce(SO_4)_2$ catalyzes the reaction $8HIO_3+5AsH_3 = 5H_3AsO_4+4I_2+4H_2O$; at the same time there takes place in the system the reaction: $2I_2+IO_3+6H^+ = 6I^+ + 3H_2O$, and it is proposed to add to absorption mixture, as

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

COUNTRY : Bulgaria
CATEGORY : E-2

ABS. JOUR. : RZKhim., No. 1959, No. 8183

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : a stabilizer of I^+, tartaric acid at 0.0106 M concentration. Polarography is carried out with 15 ml of the solution, after adding thereto 0.5 ml of 0.5% gelatin solution. -- N. Turkevich.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1

YELENOV, L. K.

Dissertation: "Biology of Lehman's Dodder and an Investigation of Some Methods for Controlling It." Cand Biol Sci, Soil Biology Faculty, Central Asia State Univ., 16 Apr 54. (Pravda Vostoka, Tashkent, 6 Apr 54)

SO: SUM 243, 19 Oct 1954

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962520014-1"